

Title (en)  
PIPE JOINT WITH EARTHQUAKE-PROOF FUNCTION

Title (de)  
ROHRVERBINDUNG MIT ERDBEBENSICHERER FUNKTION

Title (fr)  
JOINT DE CANALISATION ANTISISMIQUE

Publication  
**EP 1584854 B1 20101117 (EN)**

Application  
**EP 03781016 A 20031222**

Priority  

- JP 0316499 W 20031222
- JP 2003000742 A 20030107
- JP 2003019594 A 20030129
- JP 2003373851 A 20031104

Abstract (en)  
[origin: EP1584854A1] A pipe joint with earthquake-proof function is provided. A lock ring engages with an accommodating groove of a socket. A tapered surface converging toward the opening side of the socket is formed on at least one of a portion of the lock ring engaging the accommodating groove and a portion of the accommodating groove engaging the lock ring. When a disengagement prevention force in a pipe axial direction for preventing a spigot from being disengaged from the socket by the engagement is transmitted from an accommodating groove to the lock ring through the tapered surface, a line of action of a component force of the disengagement prevention force in a direction perpendicular to the tapered surface passes the opening side of the socket of a contacting point between a socket bottom end part of the lock ring and the outer periphery of the spigot along the outer surface of the spigot. <IMAGE>

IPC 8 full level  
**F16L 21/08** (2006.01); **F16L 27/12** (2006.01); **F16L 37/088** (2006.01)

CPC (source: EP KR US)  
**F16L 21/00** (2013.01 - KR); **F16L 21/08** (2013.01 - EP KR US); **F16L 27/12751** (2019.07 - EP US); **F16L 37/088** (2013.01 - EP US)

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1584854 A1 20051012**; **EP 1584854 A4 20070404**; **EP 1584854 B1 20101117**; AU 2003289506 A1 20040729; DE 60335027 D1 20101230; KR 101064549 B1 20110914; KR 20050087878 A 20050831; TW 200422549 A 20041101; TW I295717 B 20080411; US 2006108797 A1 20060525; US 7243954 B2 20070717; WO 2004061354 A1 20040722

DOCDB simple family (application)  
**EP 03781016 A 20031222**; AU 2003289506 A 20031222; DE 60335027 T 20031222; JP 0316499 W 20031222; KR 20057012649 A 20031222; TW 92136983 A 20031226; US 53974405 A 20050620